



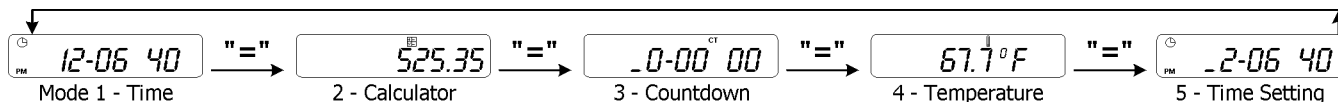
## MM10602 Digital Map Measurer



1. Calculator
2. MEASURE Button
3. SCALE Button
4. COMPASS
5. Battery Door
6. LIGHT Button
7. RESET Button

### Modes

Scroll through the 5 modes by pressing the white "=" button on the calculator.



### Mode 1 - Time

The Time Mode is the default mode, and is indicated by the round clock icon, in the upper left-hand corner of the display. Immediately after battery placement, or if no buttons are pressed for 2 minutes, the map measurer will default to this mode.

- (1) **Time Zone Setting** – When setting the clock for the first time, or after replacing batteries, a time zone must be entered. Determine the corresponding code for the city in your time zone from inside the lid, or the list, below. Using a pen or pencil, press the gray RESET Button, and the display will begin in the Honolulu time zone at 12:00 AM. Input the corresponding code (white button), for the city in your time zone, and press "CE" to confirm. The clock will switch to your time zone. Go to step (2).

Code	Time Zone	Code	Time Zone	Code	Time Zone	Code	Time Zone
0	Denver	4	Karachi	8	Paris	-	Los Angeles
1	Sydney	5	Bangkok	9	Cairo	x	Tokyo
2	Wellington	6	Hong Kong	.	Chicago	÷	Moscow
3	Honolulu	7	London	+	Rio de Janeiro	AC/ON	New York

- (2) **Time Setting** – Press "=" four times to enter **Mode 5 - Time Setting Mode** (flashing first digit). Press "CE" to switch between AM and PM. Input the time in "hour-minute-second" format. For example, enter "08-15-00", for 8:15. Go to step (3)
- (3) **Change 12/24-Hour Format** – In the Time Mode, press "CE" to switch between 12 & 24-hour format.
- (4) **View Time in Other Cities** – Once the time zone & time are set, press the corresponding code (white button) to view the time in other cities.

### Mode 2 - Calculator

From any mode press "=" repeatedly to scroll to the Calculator Mode. The calculator is now awaiting input.

### Mode 3 - Countdown Timer

From any mode press "=" repeatedly to scroll to the Countdown Timer Mode. The first "0" will flash awaiting a change. Input the desired count down time in the "hour-minute-second" format. After entering, press "CE" to start and stop the count down timer. When "0" seconds is reached, "00-00-00" will flash for 30 seconds.

### Mode 4 - Temperature

From any mode press "=" repeatedly to scroll to the Temperature Mode. Press "CE" to switch between °F & °C.

### Map Distance Measurement

The following two examples use a map scale of 1:24,000 (1 inch measured = 24,000 inches in real life), and 1" :10 mi. (1 inch = 10 miles in real life).

- (1) **1:24,000 Scale** - Press the blue SCALE Button in any mode. Zero flashes waiting for an entry of "24000". After "24000" is entered, press "=" to confirm. To measure, press the blue MEASURE Button, and press "CE" to select either KM or MILE. Place the measuring wheel at the starting position, on the map, and roll the wheel to the destination. Read the distance in the display. If your scale is 1:50,000 enter "50000", if 1:1,000 enter "1000", ... etc. The default scale is 1:100,000, even when "0" is entered.
- (2) **1 inch = 10 miles Scale** – First, we must change 10 miles to inches, so that both sides of the "=" are the same units. With some calculation, 1 mile = 63,360", so we can say 10 miles = 633,600". Now, replace 10 miles with 633,600". The new scale is 1":633,600" (**1:633,600**). Press the blue SCALE Button in any mode. Enter "633600" and confirm by pressing "=". To measure, press the blue MEASURE Button, and press "CE" to select either KM or MILE. Now the map measurer is ready to measure.

To re-measure using the last entered scale, press the blue MEASURE BUTTON again, even after scrolling to another mode. The map measurer remembers the value. Use the examples above to help you determine the value to enter. Remember, the scale should always start with a "1" (1:50).

### Light

Press and hold the blue LIGHT Button to turn the light ON. Release the button to turn the light OFF.

### Compass

View the compass on the backside of the map measurer.

### Technical Information

- |                                                                                                 |                                        |                                                |
|-------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------------------------|
| (1) Displays up to 8 characters.                                                                | (4) Map Measuring Tolerance: $\pm 4\%$ | (7) Uses two AG13 lithium batteries (included) |
| (2) Temperature Tolerance: $\pm 2.5^{\circ}\text{C}$ ( $-10^{\circ}$ to $+40^{\circ}\text{C}$ ) | (5) Resolution: 2mm of map distance    | (8) Standby Current: $< 10\mu\text{A}$         |
| (3) Time Tolerance: $< 2$ seconds/day                                                           | (6) Battery Life: 6-12 months          | (9) Running Current: 8-12mA                    |